

10/5/9104

APPROVED 10 MAY 2006

753-65 PCT-US Sequence Listing  
SEQUENCE LISTING

<110> POLYPHOR LTD.

<120> Template fixed beta-hairpin mimetics and their use in  
phage display

<130> P1338PCT

<140> PCT/EP 03/12783

<141> 2003-11-15

<160> 44

<170> PatentIn Ver. 2.1

<210> 1

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:key sequence

<400> 1

Val Arg Lys Lys

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<210> 2

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:key sequence

<400> 2

Lys Lys Tyr Leu

1

<210> 3

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:key sequence

<400> 3

Trp Leu Asp Val

1

<210> 4

<211> 5

<212> PRT

<213> Artificial Sequence

# 753-65 PCT-US Sequence Listing

<220>

<223> Description of Artificial Sequence:key sequence

<400> 4

Tyr Ile Arg Leu Pro  
1 5

<210> 5

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:key sequence

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1 5

<210> 6

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:key sequence

<400> 6

Ile Lys Val Ala Val  
1 5

<210> 7

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:key sequence

<220>

<223> Xaa in positions 4 and 5 can be any naturally  
occurring L-alpha-amino acid

<400> 7

Pro Pro Arg Xaa Xaa Trp  
1 5

<210> 8

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:hairpin mimetic

# 753-65 PCT-US Sequence Listing

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 <222> (1)  
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 Cys Lys Trp Phe Leu Ala His Tyr Ala Cys  
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<220>  
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<220>  
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<220>  
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<220>  
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 <223> ACETYLATION

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<210> 11  
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# 753-65 PCT-US Sequence Listing

<212> PRT  
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<220>  
<223> Description of Artificial Sequence:hairpin mimetic

<220>  
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<223> ACETYLATION

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<212> PRT  
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<220>  
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<221> MOD\_RES  
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<223> ACETYLATION

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<210> 13  
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<220>  
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<220>  
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<220>  
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<222> (1)  
<223> ACETYLATION

<400> 13  
Leu Glu Cys Thr Lys Trp Phe Leu Ala His Tyr Ala Thr Cys Lys Val  
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# 753-65 PCT-US Sequence Listing

1 5 10 15

<210> 14  
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<220>  
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<220>  
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<210> 15  
 <211> 16  
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<220>  
 <223> Description of Artificial Sequence:hairpin mimetic

<220>  
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<210> 16  
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<220>  
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<220>  
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# 753-65 PCT-US Sequence Listing

<221> MOD\_RES  
<222> (1)  
<223> ACETYLTATION

<400> 16  
Glu Thr Cys Thr Lys Trp Phe Leu Ala His Tyr Ala Thr Cys Thr Lys  
1 5 10 15

<210> 17  
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<221> MOD\_RES  
<222> (1)  
<223> ACETYLTATION

<400> 17  
Glu Leu Lys Cys Thr Lys Trp Phe Ser Asn His Tyr Gln Thr Cys Glu  
1 5 10 15

Val Lys

<210> 18  
<211> 18  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence:hairpin mimetic

<220>  
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<222> (1)  
<223> ACETYLTATION

<400> 18  
Lys Val Gly Cys Thr Lys Trp Phe Leu Ala His Tyr Ala Thr Cys Gly  
1 5 10 15

Leu Glu

<210> 19

# 753-65 PCT-US Sequence Listing

<211> 18  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:hairpin mimetic

<220>  
 <221> DISULFID  
 <222> (4)..(15)

<400> 19  
 Gly Gly Gly Cys Thr Lys Trp Phe Leu Ala His Tyr Ala Thr Cys Gly  
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Gly Gly

<210> 20  
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 <212> PRT  
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<220>  
 <223> Description of Artificial Sequence:hairpin mimetic

<220>  
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 <222> (1)  
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<210> 21  
 <211> 18  
 <212> PRT  
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<220>  
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<220>  
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 <222> (1)  
 <223> ACETYLATION

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## 753-65 PCT-US Sequence Listing

Thr Lys

<210> 22  
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 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:core peptide  
 sequence

<400> 22  
 Leu Trp Tyr Ser Asn His Trp Val  
 1 5

<210> 23  
 <211> 8  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:modified core  
 peptide sequence

<400> 23  
 Lys Trp Phe Ser Asn His Tyr Gln  
 1 5

<210> 24  
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 <212> PRT  
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<220>  
 <223> Description of Artificial Sequence:core peptide  
 sequence

<400> 24  
 Phe Leu Ala His Tyr Ala  
 1 5

<210> 25  
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 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:core peptide  
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<400> 25  
 Leu Trp Tyr Ser Asn His Trp Val Lys Trp  
 1 5 10



## 753-65 PCT-US Sequence Listing

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<210> 26
<211> 39
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:oligonucleotide

<400> 26
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<210> 27
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<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:oligonucleotide

<400> 27
catgtttcgg ccgagccacc acctttggtg caggtctgat aatggttgct gaaccatttg 60
gtgcaggttt cagagtgaga atag 84

<210> 28
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:oligonucleotide

<400> 28
tgcaaagtgt tcctggcgca ttatgcgtgc 30

<210> 29
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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:oligonucleotide

<400> 29
gaaacctgca aatggttcct ggcgcattat gcgtgcacca aa 42

<210> 30
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:oligonucleotide

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tgcaccaa at gggtcagcaa ccattatcag acctgc 36

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## 753-65 PCT-US Sequence Listing

<210> 31  
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 <213> Artificial Sequence  
  
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<210> 32  
 <211> 36  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence:oligonucleotide  
  
 <400> 32  
 tgcaccaaat ggttcctggc gcattatgcg acctgc 36

<210> 33  
 <211> 48  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence:oligonucleotide  
  
 <400> 33  
 ctggaatgca ccaaatggtt cctggcgcat tatgcgacct gcaaagtt 48

<210> 34  
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<210> 35  
 <211> 48  
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 <220>  
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 <400> 35  
 ggtggttgca ccaaatggtt cctggcgcat tatgcgacct gcggcggt 48

<210> 36  
 <211> 48

# 753-65 PCT-US Sequence Listing

<212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence:oligonucleotide  
  
 <400> 36  
 gaaacctgca ccaaattggt cctggcgcat tatgcgacct gcaccaa 48  
  
 <210> 37  
 <211> 54  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence:oligonucleotide  
  
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 gaactgaaat gcaccaaatt gttcagcaac cattatcaga cctgcgaagt taaa 54  
  
 <210> 38  
 <211> 54  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence:oligonucleotide  
  
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 aaagttggtt gcaccaaatt gttcctggcg cattatgcga cctgcggtct ggaa 54  
  
 <210> 39  
 <211> 54  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence:oligonucleotide  
  
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 ggtggtggct gcaccaaatt gttcctggcg cattatgcga cctgcggcgg tggt 54  
  
 <210> 40  
 <211> 42  
 <212> DNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence:oligonucleotide  
  
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 tgcggtacca aatggttcag caaccattat cagaccggtt gc 42  
  
 <210> 41  
 <211> 54  
 <212> DNA  
 <213> Artificial Sequence

# 753-65 PCT-US Sequence Listing

<220>  
 <223> Description of Artificial Sequence:oligonucleotide

<400> 41  
 gaaacctgcg gtaccaaag gttagcaac cattatcaga ccggttgac caaa 54

<210> 42  
 <211> 48  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:DNA sequence of  
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 Phage library

<220>  
 <221> CDS  
 <222> (1)..(48)

<220>  
 <223> xaa in the peptide chain signifies randomized  
 amino acid positions

<220>  
 <223> Cysteine residues in positions 3 and 14 are linked  
 by a disulfide bridge

<400> 42  
 gaa acc tgc nnk nnk nnk cgt ggt gac nnk nnk nnk nnk thc acc aaa 48  
 Glu Thr Cys Xaa Xaa Xaa Arg Gly Asp Xaa Xaa Xaa Xaa Xaa Thr Lys  
 1 5 10 15

<210> 43  
 <211> 16  
 <212> PRT  
 <213> Artificial Sequence  
 <223> Cysteine residues in positions 3 and 14 are linked  
 by a disulfide bridge

<400> 43  
 Glu Thr Cys Xaa Xaa Xaa Arg Gly Asp Xaa Xaa Xaa Xaa Xaa Thr Lys  
 1 5 10 15

<210> 44  
 <211> 84  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence:oligonucleotide  
 for library construction

<400> 44  
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 nngcaggttt cagagtgaga atag 84